

SELECTED PUBLICATIONS BY ESSA AUTHORS

- Allen, Phillip W., "Venting and Fallout Prediction," *Proceedings of the Symposium on Education for Peaceful Uses of Nuclear Explosives, The University of Arizona, Tucson, March 30-April 1, 1969*, The University of Arizona Press, Tucson, 1970, pp. 193-204.
- Armstrong, Robert H., and Morrell, Joseph R., "Weather Predictions and Surface Radiation Estimates for the MILROW EVENT," *Final Report*, Contract No. SF54-351, Air Resources Laboratory, Las Vegas, Nev., Dec. 1969, 49 pp.
- Baker, D. M., and Davies, K., "F-2 Region Acoustic Waves From Severe Weather," *Journal of Atmospheric and Terrestrial Physics*, Vol. 31, Pergamon Press, London, 1969, pp. 1345-1352.
- Baker, Donald M., and Davies, Kenneth, "Use of the Doppler Technique to Study the Fading of High-Frequency Ionospheric Radio Signals," *Proceedings of the AGARD Conference on Oblique Ionospheric Radio-wave Propagation at Frequencies Near the Lowest Usable High Frequency, Leicester, England, July 25-29, 1969*, No. 13, Technivision Services, Slough, England, 1969, pp. 277-284.
- Bean, B. R., and Emmanuel, C. B., "Spectral Interdependence of the Radio Refractivity and Water Vapor in the Atmosphere," *Radio Science*, Vol. 4, No. 12, Dec. 1969, pp. 1159-1162.
- Bean, B. R., and Gilmer, R. O., "Comparison of Barium Fluoride Humidity Element With the Microwave Refractometer for Studies of Rapid Fluctuations of Atmospheric Humidity," *Radio Science*, Vol. 4, No. 12, Dec. 1969, pp. 1155-1157.
- Briggs, Gary A., "III. Mathematical Analysis of Chimney Plume Rise and Dispersion Optimum Formulas for Buoyant Plume Rise," *Philosophical Transactions of the Royal Society of London*, Ser. A, Vol. 265, 1969, pp. 197-203.
- Briggs, Gary A., "Plume Rise," *Atomic Energy Review Series*, USAEC Division of Technical Information Extension, Oak Ridge, Tenn., Nov. 1969, 81 pp.
- Briggs, Gary A., "Prediction of Plume Rise Heights," *Proceedings of the 8th Annual Environmental and Water Resources Engineering Conference, Vanderbilt University School of Engineering, Nashville, Tenn., June 5-6, 1969*, Air Resources Atmospheric Turbulence and Diffusion Laboratory, ESSA, Oak Ridge, Tenn., June 1969, 18 pp.
- Calvert, W., "Resonances in the Ionosphere," *Plasma Waves in Space & in the Laboratory*, Vol. 1, Edinburgh University Press, Edinburgh, Scotland, 1969, pp. 41-54.
- Carter, Horace S., "Georgia Temperatures," *Research Report 69*, University of Georgia, College of Agriculture Experiment Stations, Athens, Mar. 1970, 53 pp.
- Cloud, William K., and Carder, Dean S., "Ground Effects From the Boxcar and Benham Nuclear Explosions," *Bulletin of the Seismological Society of America*, Vol. 59, No. 6, Dec. 1969, pp. 2371-2381.
- Cook, Richard K., "Subsonic Atmospheric Oscillation," *Proceedings of the Symposium on Acoustic-Gravity Waves in the Atmosphere, Boulder, Colorado, July 15-17, 1968*, ESSA and Advanced Research Projects Agency, Boulder, 1968, pp. 209-213.
- Crosby, F. L., Carter, H. S., and Quattlebaum, B. H., Jr., (with Burgess, Sam), "Weather Data Analyses of the University of Georgia, College of Agriculture Experiment Stations," *Research Report 66*, University of Georgia, College of Agriculture Experiment Stations, Athens, Feb. 1970, 129 pp.
- Davies, K., and Jones, J. E., "Doppler Radio Soundings of the Antarctic Ionosphere During 1968," *Antarctic Journal of the United States*, Vol. 4, No. 5, Sept.-Oct. 1969, pp. 227-228.
- Davies, Kenneth, and Jones, R. Michael, "The ITSA Three-Dimensional Ray Tracing Program," *Proceedings of the AGARD Conference on Oblique Ionospheric Radio-Wave Propagation at Frequencies Near the Lowest Usable High Frequency, Leicester, England, July 25-29, 1969*, No. 13 Technivision Services, Slough, England, 1969, pp. 173-198.
- Dougherty, H. T., "An Expansion of the Helmholtz Integral and Its Evaluation," *Radio Science*, Vol. 4, No. 11, Nov. 1969, pp. 991-995.
- Dougherty, H. T., "Radio Wave Propagation for Irregular Boundaries," *Radio Science*, Vol. 4, No. 11, Nov. 1969, pp. 997-1004.
- Dougherty, H. T., "The application of Stationary Phase to Radio Propagation for Finite Limits of Integration," *Radio Science*, Vol. 5, No. 1, Jan. 1970, pp. 1-6.
- Espinosa, Alvaro E., "Ground Amplification Study at Two Sites Near Bakersfield, California," *Earthquake Notes*, Vol. XL, No. 3, Sept. 1969, pp. 3-20.
- Fehsenfeld, F. C. and Ferguson, E. E., "Model for Associative-Detachment Reactions of the Insertion Type," *The Journal of Chemical Physics*, Vol. 51, No. 8, Oct. 15, 1969, pp. 3512-3514.
- Fehsenfeld, F. C., Ferguson, E. E., and Mosesman, M., "Measurement of the Thermal Energy Reaction $\text{NO}_2^+ + \text{NO} \rightarrow \text{NO}^+ + \text{NO}_2$," *Chemical Physics Letters*, Vol. 4, No. 2, Oct. 1, 1969, pp. 73-74.
- Ferguson, E. E., and Fehsenfeld, F. C., "Water Vapor Ion Cluster Concentrations in the D Region," *Journal of Geophysical Research, Space Physics*, Vol. 74, No. 24, Nov. 1, 1969, pp. 5743-5751.
- Friedman, Howard A., and Freedman, William J., "Project Snow Storm-1970 (East Coast Cyclogenesis-Research) Reconnaissance," *RFF Operations Plan 1-70*, Research Flight Facility, ESSA, Miami, Fla., Jan. 15, 1970, 14 pp.
- Friedman, Howard A., Zuckerberg, Fred L., (with Spar, Jerome), "Aircraft Reconnaissance of Winter Coastal Cyclones in the Northeastern United States," *Bulletin of the American Meteorological Society*, Vol. 50, No. 11, Nov. 1969, pp. 857-865.
- Gadsden, M., "Antarctic Twilight Observations: 2. Sodium Emission at 90° S.," *Annales de Geophysique*, Vol. 25, No. 3, 1969, pp. 721-730.
- Gallawa, Robert L., Beery, Wesley M., Chu, Teh-Ming, Cook, Kenneth R., FitzGerrell, Richard G., Haidle, Leroy L., Partch, Jerome E., and Rosner, Kurt, "The Surface-Wave Transmission Line and Its Use in Communicating With High-Speed Vehicles," *IEEE Transactions on Communication Technology*, Vol. COM-17, No. 5, Oct. 1969, pp. 518-525.
- Hagfors, T., Green, J. L., and Guillin, A., "Determination of the Albedo of the Moon at a Wavelength of 6M," *Astronomical Journal*, Vol. 74, No. 10, Dec. 1969, pp. 1214-1219.
- Hanna, Steven R., "The Thickness of the Planetary Boundary Layer," *Atmospheric Environment*, Vol. 3, Pergamon Press, London, Sept. 1969, pp. 519-536.
- Hansen, Richard T., "Observations of the Solar Corona: February 1964-January 1968," *Report UAG-7*, Upper Atmosphere Geophysics, World Data Center A, Asheville, N.C., Oct. 1969, pp. 1-12.
- Harris, Thomas B., and Wilkins, Eugene M. (with Keeling, Charles D.), "Concentration of Atmospheric Carbon Dioxide at 500 and 700 Millibars," *Journal of Geophysical Research*, Vol. 73, No. 14, July 15, 1968, pp. 4511-4528.
- Hatch, Marshall G., "Colorado Lee Wave Project 1970," *ESSA/RFF Operations Plan 2-70*, Environmental Science Services Administration, Research Flight Facility, Miami, Fla., Jan. 1970, 15 pp.
- Hosler, Charles R., "Vertical Diffusivity From Radon Profiles," *Journal of Geophysical Research*, Vol. 74, No. 28, Dec. 20, 1969, pp. 7018-7026.
- Isacks, Bryan, (with Molnar, Peter), "Mantle Earthquake Mechanisms and the Sinking of the Lithosphere," *Nature*, Vol. 223, No. 5211, Sept. 13, 1969, pp. 1121-1124.
- Jones, Don A., "Mapping the Coastal Zone for Boundary Demarcation," *Shore and Beach*, Vol. 37, No. 2, Oct. 1969, pp. 34-37.
- Kessler, Edwin, "On the Distribution and Continuity of Water Substance in Atmospheric Circulations," *Meteorological Monographs*, Vol. 10, No. 32, Nov. 1969, 84 pp.
- Kish, Alex J., "Clemson University and South Carolina Agricultural Experiment Stations 1969 Climatological Data," *Agricultural Weather Research Series No. 22*, South Carolina Agricultural Experiment Station, Clemson University, S.C., Jan. 1970, 36 pp.
- Kish, Alex J., "1969 Climatological Report of the South Carolina Agricultural Weather Service and 1969 South Carolina Crop Summary," *Agricultural Weather Research Series No. 23*, South Carolina Agricultural Experiment Station, Clemson University, S.C., Jan. 1970, 24 pp.